

SEP 25 2006

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 1

Application No.	10/620,312
Filing Date	July 14, 2003
First Named Inventor	Maier, et al.
Art Unit	1646
Examiner	Pak, Michael D.
Attorney Docket No.	AUROBIO.026CP1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
MDP		CONNOLLY, P. et al. An Extracellular Microelectrode for Monitoring Electrogenic Cells in Culture. Biosensors and Bioelectronics. 1990. 5:223-234.	

2856347:082106/JJH

Examiner Signature MICHAEL PAK

Date Considered 10-9-06

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T¹ - Place a check mark in this area when an English language Translation is attached.



PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	10/620,312
	Filing Date	July 14, 2003
	First Named Inventor	Maher et al.
	Art Unit	1646
(Multiple sheets used when necessary)	Examiner	Michael D. Pak
SHEET 1 OF 1	Attorney Docket No.	AUROBIO.026CP1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
MDP		5,972,694	08-01-1995	Catterall et al.	

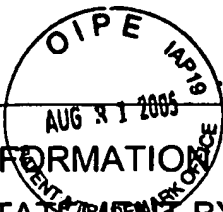
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹

2355842
020706

Examiner Signature <u>MICHAEL PAK</u>	Date Considered <u>10-9-06</u>
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T¹ - Place a check mark in this area when an English language Translation is attached.



PTO/SB/08 Equivalent

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 1

Application No.	10/620,312
Filing Date	July 14, 2003
First Named Inventor	Maher et al.
Art Unit	1943
Examiner	Unassigned
Attorney Docket No.	AUOBIO.026CP1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
MDP	1	Tung et al., "Analysis of Electric Field Stimulation of Single Cardiac Muscle Cells", (1992) Biophysical Journal 63(2): 371-386.	

1849694
080405

Examiner Signature MICHAEL PAK

Date Considered 10-9-06

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T¹ - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Multiple sheets used when necessary) SHEET 1 OF 1	Application No.	10/620,312	
	Filing Date	July 14, 2003	
	First Named Inventor	Maier et al.	
	Art Unit	1742	
	Examiner	Unassigned	
		Attorney Docket No.	AUROBIO.026CP1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
MDP	1	5,972,694	10/1999	Mathus	

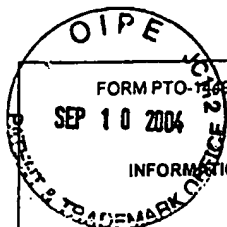
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
MDP	2	Denyer, J et al., "HTS Approaches to Voltage-Gated Ion Channel Drug Discovery Today", (1998) 3(7): 323-332.	
MDP	3	Brust-Mascher, I et al., "Calcium Waves Induced by Large Voltage Pulses in Fish Keratocytes", Biophysical Journal", (1998) 75(4): 1669-1678.	

1724790
052305

Examiner Signature	MICHAEL PINK	Date Considered	10-11-06
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

T¹ - Place a check mark in this area when an English language Translation is attached.



SHEET 1 OF 1

FORM PTO-1539

SEP 10 2004

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
AUROBIO.026CP1APPLICATION NO.
10/620,312INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Maher et al.FILING DATE
July 14, 2003GROUP
1748

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
MDP	1	4,695,547	9/22/1987	Hillard et al.			
	2	4,699,881	10/13/1987	Matschke			
	3	5,128,257	7/7/1992	Baer			
	4	5,422,272	6/6/1995	Papp et al.			
MDP	5	6,352,853 B1	3/5/2002	King et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER INITIAL	

S:\DOCS\TRA\TRA-2311.DOC
090704

EXAMINER

MICHAEL PAK

DATE CONSIDERED

10-11-06

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
AUROBIO.028CP1APPLICATION NO.
10/620,312INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Maher et al.FILING DATE
July 14, 2003

GROUP

~~1743~~

1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
MDP	1	4,801,543	1/31/1989	Arnold et al.			
↑	2	5,194,133	3/16/1993	Clark et al.			
↓	3	5,643,742	7/1/1997	Malin et al.			
MDP	4	6,376,233	4/23/2002	Wolf et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
MDP	5	Jacobs et al., "Control of Action Potential-Induced Ca ²⁺ Signaling in the Soma of Hippocampal Neurons by Ca ²⁺ Release from Intracellular Stores", (1997) Journal of Neuroscience 17(11):4129-4135.
MDP	6	Reiner et al., "Use of a Membrane Potential -Sensitive Probe to Assess Biological Expression of the Cystic Fibrosis Transmembrane Conductance Regulator" (1995) Human Gene Therapy 6:1275-1283.
MDP	7	Sinha et al., "Simultaneous Optical Recording of Evoked and Spontaneous Transients of Membrane Potential and Intracellular Calcium Concentration with High Spatio-Temporal Resolution" (1995) Journal of Neuroscience Methods 60:49-60

S:\DOCS\TRA\TRA-1162.DOC
041404

EXAMINER	MICHAEL DIAM	DATE CONSIDERED	10-11-06
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
AUROBIO.026CP1APPLICATION NO.
10/620,312INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Maher, et al.FILING DATE
July 14, 2003

GROUP

~~1748~~ → 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
MDP	1	4,072,578	2/7/78	Cady, et al.			
↑	2	4,514,500	4/30/85	Giaever, et al.			
	3	4,481,304	7/24/84	Kuperstein			
	4	4,628,933	12/16/86	Michelson			
	5	4,677,989	7/7/87	Robblee			
	6	4,969,468	11/13/90	Byers, et al.			
	7	5,024,233	6/18/91	Chow			
	8	5,178,161	1/12/93	Kovacs			
	9	5,187,096	2/16/93	Giaever, et al.			
	10	5,405,367	4/11/95	Schulman, et al.			
	11	5,432,086	7/11/95	Fränzl, et al.			
	12	5,439,440	8/8/95	Hofmann			
	13	5,545,120	8/13/96	Hofmann, et al.			
	14	5,563,067	10/8/96	Sugihara, et al.			
	15	5,571,158	11/5/98	Bolz, et al.			
	16	5,810,725	9/22/98	Sugihara, et al.			
	17	5,855,801	1/5/99	Lin, et al.			
	18	5,935,155	8/10/99	Humayun, et al.			
	19	5,957,958	9/28/99	Schulman, et al.			
	20	5,965,452	10/12/99	Kovacs			
	21	5,981,268	11/9/99	Kovacs, et al.			
	22	6,008,038	12/28/99	Kröger, et al.			
	23	6,009,347	12/28/99	Hofmann			
	24	6,024,702	2/15/00	Iversen			
	25	6,031,711	2/29/00	Tennent, et al.			
✓	26	6,038,478	3/14/00	Yuen, et al.			
MDP	27	6,046,062	4/4/00	Davis, et al.			

EXAMINER MICHAEL PAIC

DATE CONSIDERED 10-11-06

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
AUROBIO.028CP1APPLICATION NO.
10/620,312INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Maher, et al.FILING DATE
July 14, 2003GROUP
~~1743~~ 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
MDP	28	6,051,422	4/18/00	Kovacs, et al.			
MDP	29	6,083,280	5/16/00	Olesen, et al.			
MDP	30	6,099,960	8/8/00	Tennent, et al.			
MDP	31	6,205,016	3/20/01	Niu			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
MDP	32	WO97/05922	2/20/97	PCT				
MDP	33	WO00/25121	5/4/00	PCT				
MDP	34	WO00/68686	11/16/00	PCT				
MDP	35	1 067 378 A1	1/10/01	EPO				
MDP	36	96/41166	12/19/96	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
MDP	37	Amdts, Oral Presentation Abstract, Second International Cell Analysis Products Users Meeting in Hilton Head Island, South Carolina, USA (June 3-5, 1998).
MDP	38	Barr and Plonsey, Biophys. J. 61, 1164-1175 (1992).
MDP	39	Barr and Plonsey, IEEE 42, 1185-11911 (1995).
MDP	40	Cartee and Plonsey, Med & Biol. Eng. & Comp. 30 389-398 (1992).
MDP	41	Cartee and Plonsey, IEEE 39, 76-85 (1992).
MDP	42	Eppich et al., Nature Biotech. 18, 882-887 (2000).
MDP	43	González, J.E., et al., "Cell-based assays and instrumentation for screening ion-channel targets", Drug Discover Today, Vol. 4, No. 9, pp. 431-439, (September 1999).
MDP	44	González, J.E., et al., "Voltage sensing by fluorescence resonance energy transfer in single cells", Biophysical Journal, Vol. 69, No. 4, pp. 1272-1280, (October 1995).
MDP	45	Giuliano, K.A., et al., "Fluorescent-protein biosensors: new tools for drug discovery", Trends in Biotechnology, Vol. 16, No. 3, pp. 135-140, (March 1998).
MDP	46	Greenberg, et al. IEEE 46, 505-514 (1999).
MDP	47	Gross, et al. Biophys. J. 50, 339-348 (1988).
MDP	48	Jentsch and Günther, BioEssays 19, 117-126 (1997).
MDP	49	Klee and Plonsey, Biophys. J. 12 1661-1675 (1972).

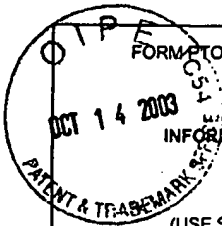
EXAMINER


MICHAEL PAK

DATE CONSIDERED

10-11-06

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

 <p>FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(USE SEVERAL SHEETS IF NECESSARY)</p>	ATTY. DOCKET NO. AUROBIO.028CP1	APPLICATION NO. 10/820,312
	APPLICANT Maher, et al.	
	FILING DATE July 14, 2003	GROUP 1743 1646

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
MDP 	50	Klee and Plonsey, IEEE 23, 347-354 (1976).
	51	Mitchell et al., J. Biomed. Eng. 14, 52-56 (1992).
	52	Plonsey, Med & Biol. Eng. & Comput. 19 311-315 (1981).
	53	Plonsey, Med. & Biol. Eng. & Comput. 33 337-340 (1995).
	54	Plonsey and Barr, IEEE 42 329-336 (1995).
	55	Plonsey and Barr, IEEE 9/10 130-137 (1998.)
	56	Rattay, Neuroscience 89 335-346 (1999).
	57	Roth, Critical Reviews in Biomed. Eng. 22 263-305 (1994).
	58	Rowell, Biophotonics Int. 12 25-26 (2000).
	59	Schmidt et al., Proc Natl. Acad. Sci. USA 94 8948-8953 (1997).
	60	Stone et al., J. Cardiovascular Electrophysiology 10 92-107 (1999).
	61	Svirskis et al., American Phys. Soc. 0022-3077 579-586 (1997).
	62	Tung and Borderies, Biophys. J. 63 371-386 (1992).
	63	Tung et al., Circulation Research 69 722-730 (1991).
MDP	64	Zhou, et al., Circulation Research 83 1003-1014 (1998).

S:\DOCS\ETA\ETA-1773.DOC
082703

EXAMINER MICHAEL PAK	DATE CONSIDERED 10-11-06
<p>*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 809; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.</p>	